

Y/002/62/000/003/001/002
D263/D302

AUTHOR: Pernat, Ivan, Engineer

TITLE: "Jugovinil" Plastics and Chemical Products Plant, Kaštel-Sućurac

PERIODICAL: Kemija u industriji, no. 3, 1962, 109-113

TEXT: The article contains a review of products of the "Jugovinil" Ever-nica plastičnih masa i kemijskih proizvoda (Plastics and Chemical Products Plant) in Kaštel-Sućurac. Since the Yugoslav chemical and plastics industries lag considerably behind the level of those in highly industrialized countries, every effort is being made, particularly by the "Jugovinil" Plant, the largest plastics producer in the country, to meet the domestic demand for plastics, thus cutting the costly imports of final products and intermediates. The "Jugovinil" Plant started the production of "Juvinil" PVC powder 12 years ago. The present yearly output of 8,000 tons will be increased to 18,000 tons in 1963 when the expansion and modernization of the plant is completed. The production of 3,000 tons of dioctyl-phthalate

Card 1/2

Y/002/62/000/003/001/002

D263/D302

"Jugovinil" Plastics and ...

plasticizer yearly fully covers the present demand. The present production of "Juvinil" granular powder amounts to 3,000 tons yearly, but an increase to 8,000 tons next year is planned. Other plastic products of the plant are vinyl chloride and vinyl acetate copolymers, "Juviflex" foil in a thickness of 0.08-0.54 mm, or 0.7 mm on special order, and 0.008-mm-thick transparent and opaque foil. The present yearly total of 3,000 tons of plastic floor coverings, to be increased to 5,000 tons in 1963, includes "Podolit" soft floor covering, in blocks or strips, 105 cm wide and 2-4 mm thick and another type of floor covering 1.5 mm thick and 90 cm wide. "Juvidur" pipes -- present yearly total 600 tons -- and "Juvinil" paste for imitation leather articles, have been well received by domestic consumers. The production program of the plant also includes chlorine, sodium hydroxide, sodium chlorate, sodium hypochlorite, calcium carbide and hydrochloric acid. In addition to numerous individual prospectuses, the plant also issues a 3-monthly commercial-technical publication "Jugovinil" designed to keep domestic "Juvinil" consumers informed about modern processing and fabrication methods. There are 3 figures.

Card 2/2

SVISTEL'NIKOV, G.A.; PERNATKINA, N.I., starshiy ekonomist.

Using business accounting in telecommunications offices in Lithuania.
Vest.sviazi 16 no.5:15-16 Je '56. (MLRA 9:8)

1. Nachal'nik direktorii radiotranslyatsionnykh setey Litovskoy SSR
(for Svistel'nikov).
(Lithuania--Telecommunication)

SIMONOVSKIY, A.Ya.; PERNATKINA, V.I.; LAPSHINA, M.I.

From the work practice of the Riga Cartographic Factory in the
production of the climatic atlas of the U.S.S.R. Geod. 1 kart.
no.4:62-72 Ap '61. (MIRA 14:5)
(Cartography)

S/005/61/000/004/001/001
D054/D113

AUTHORS: Simonovskiy, A. Ya., Pernatkina, V. I., and Lapshina, M. I.
TITLE: From the experience of work of the Riga Cartographic Factory on
the compilation of a climatic atlas of the USSR
PERIODICAL: Geodeziya i kartografiya, no. 4, 1961, 62-72

TEXT: The article gives a detailed description of operations and methods connected with the compilation and printing of the first volume of the climatic atlas of the USSR and the preparation for printing of its second volume. The first volume of the 39 x 51 cm atlas was published in 1960 and the second will be issued in 1961. The atlas is intended for various branches of the Soviet national economy, especially for agriculture, and for the compilation of comprehensive atlases. Work on the making of the first volume was organized at the Glavnaya geofizicheskaya observatoriya im. A. I. Voyeykova (Main Geophysical Observatory im. A. I. Voyeykova) (GGO) by a special editorial board composed of 10 scientists-geographers headed by Doctor of Agricultural Sciences, F. F. Davidaya. Scientific editing, texts and preparation of author's originals were carried out in the Otdel klimatologii (Department of Climatology) GGO and the compilation and printing - at the Rizhskaya kartograficheskaya fabrika (The Riga Cartographic Factory). The editorial council of the factory supervised the compilation and printing, and P. Ya. Bondarenko,

Card 1/6

S/006/61/000/004/001/001
D054/D113

From the experience of work ...

chief technical editor of the atlas and member of the editorial board of the GGO, supervised the printing of the final issue of the atlas. Preparatory work took 36 months from 1957 to 1960 and the printing itself - 9 months. The atlas contains 81 sheets; the first part contains physical, vegetation and pedological maps of the USSR, compiled in the same scale as the basic special maps. The compiling and the delineation of the physical map was made in the usual way: compilation from the blueprint onto one author's original, and delineation with magnification - onto the author's original and the lettering original. The next part of the atlas contains a series of special maps: air temperature (60 maps); soil temperature (36 maps); precipitations (60 maps); evaporation and evaporability (8 maps); snow cover (10 maps) and one map of climatic districts of the USSR. Separate maps also show the intensity of solar radiation and dates of freezing and thawing of rivers. All special maps were printed only on the obverse sides and legends and explanatory texts for climatic maps as well as maps of mountainous regions were printed on the reverse side. The master-sheet of mountainous regions was compiled at the Nauchno-redaktsionnaya kartosostavitel'skaya chasty (Scientific Editorial Map-Compiling Section (NRKCh) and the technology of compiling and printing the special maps was developed at the Riga factory (fig. 1 and 2). Bromochloride positives were used for the preparation of original forms of all maps. The authors give an extremely detailed stage by stage description of compilation and printing operations. There are 3 figures.

Card 2/6

PERNE, E.

The role of engineers and technicians in the organization of work. p. 403.
("Ova Proizvodnja. Vol. 7, no. 6, Feb. 1957, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) 1957, Vol. 6, no. 7, July 1957, "ncl.

PERNE, E.

"Modern cold and hot rolling mills." p. 267. (Nova Proizvodnya. Vol. 4, no. 3/4, Sept. 1953. Ljubljana.)

SO: Monthly List of East European Accessions. Vol. 3, no. 3. Library of Congress. March 1954. Uncl.

PERNECKY, R.

TECHNOLOGY

Periodical: MELYEPITEST D-MANYI MIALE - Vol. 9, no. 2, Feb. 1959.

P. NEČEK, R. Computation of oblique plate-frame bridges. p. 74.

Monthly List of East European Acquisitions (ERAI) LC, Vol. 1, No. 5,
May 1959, Inclass.

PERENCEZKY, László, oklevélles képzelmernök

Heat energy survey of heat-producing power plants. Ipari
energia 5 no.5:97-99 Ny '64.

1. Electric Power Enterprise of North Dunantúl, Györ.

PERNECZKY, Laszlo, okleveles gepeszmernok

The first nuclear overheating of steam achieved in Europe.
Energia es Atom 17 no. 4:46-247 My '64.

1. Electric Power Enterprise of North Dunantul, Gyor.

PERNECZKY, Laszlo, okleveles gejesztermek

Remark about Dr. Istvan Erdelyi's study entitled
"International metric system." Energia es atom
16 no.10/11 515 0 '63.

1. Eszakdunantule Aromszolgaltato Vallalat, Gyor.

PERNECZKY, Geza; PERNECZKY, Laszlo, okleveles gepeszmernok

Sag determination from the earth level through measuring by
sight. Villamossag 10 no.7:193-196 J1 '62.

1. Nyugalmazott fomernok (for Geza Pernecaky).

PERNECZKY, Geza; PERNECZKY, Laszlo, okleveles gepezmernok

Sag determination from the earth level through measuring by
sight. Villamossag 10 no.7:193-196 J1 '62.

1. Nyugalmazott fomernok (for Geza Perneczky).

PERNECZKY, Laszlo, okleveles gepeszmernok

Increasing the heat output of gas-cooled reactors. Energia es
atom 15 no.8:375-380 Ag '62.

1. Eszak-dunantuli Aramszolgaltato Vallalat.

L-17253-63 EPR/JWT(1)/EP (c) R/ODD8/63/000/007/0309/0312
EPR(n)-2/BDS/T-2 AJPTC/ASD/SSD Pu-4/Pr-4/Pu-4 73
ACCESSION NR: AP3005724 72

AUTHOR: Perecsky L. (Mechanical Engineer)

TITLE: Thermal studies on combined atomic-thermal power plants

SOURCE: Energia es atomtechnika, v. 16, no. 7, 1963, 309-312

TOPIC TAGS: Atomic power plant, thermal power plant, thermal efficiency, reactor, steam generation, supercritical steam pressure

ABSTRACT: This article is a summary of a student project completed at the Budapesti Műszaki Egyetem Hőeroművek Tanszéke (Chair for Thermal Power Plants, Budapest Tech. Univ.). A diagram was prepared from published data on Western and Soviet reactors and from technical and economical calculations on conventional thermal power plants. The diagram, shown in Fig. 3, Enclosure 1, has dotted lines to show the parametric curves for conventional plants (with temperature or superheating as the parameter). By using this diagram it is possible to establish the initial steam pressure in the secondary cycle of the atomic plant at which

1/72
Card

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external superheating is thermally equivalent to that in a conventional plant for the given parameter. The diagram also shows that a combined power plant can compete successfully with supercritical power plants only if the pressures are considerably higher than those now employed. It may also be necessary to employ supercritical pressure in the combined power plant. Although other factors need also be considered, the validity of the basic factors studied in this report adequately indicate the tendency for total efficiency. Orig. art. has 4 tables and 3 diagrams.

ASSOCIATION: Eszakdunántúli Áramszolgáltató Vállalat (Enterprise for Power Supply, District of Northern Transdanubia)

SUBMITTED: 00

DATE ACQ: 15 Aug 63

ENCL: 01

SUB CODE: N5

NO REF Sov: 000

OTHER: 003

Cord 2/72

FERNECZKY, Laszlo, okleveles gepeaszernok

Thermal examination of combined atomic and heat power plants.
Energia es atom 16 n. 7.309-312 Jl '63.

1. Eszakdunantuli Aranyolgaltao Vallalat.

40307
H/C08/62/000/008/C02/^02
D286/C308

26.2211

AUTHOR: Perneczky, László, Dipl. Mech. Engineer

TITLE: Increasing the heat output of gas-cooled reactors

PERIODICAL: Energia és Atomtechnika, no. 8, 1962, 375 - 380

TEXT: In his diploma work the author presented the nuclear and thermodynamic calculations of a Calder-Hall type reactor of a given size with carbon dioxide cooling and graphite moderator. The fuel used was natural uranium. The present article describes the investigations and results in conjunction with the thermodynamic calculations. The purpose of the study was to determine the amount of heat obtainable from the reactor under varying conditions but at a constant gross gas quantity. The following points are considered. The factors influencing the heat output, the effect of flux equalization, the effect of variation of radial distribution of the gas quantity, the realization of a constant output temperature, and the implementation of a constant fuel line temperature in every channel. The investigations show that either the method of flux equalization or a distribution of the cooling gas quantity giving a constant gas /
Card 1/2

Increasing the heat output ...

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D286/D308

output temperature is suitable for increasing the heat output.
There are 3 figures and 2 tables.

ASSOCIATION: Édász

Card 2/2

DENES, Laszlo, dr.; PERNECZKY, Maria, dr.

Pathologically verified cases of occlusion of the posterior inferior cerebellar artery. On 2 types of lateral bulbar syndrome. Ideggyogy. szemle 14 no.5:136-145 My '63.

1. Bacs-Kiskun Megyei Tanacs Korhaza (ig. foo.: Takacs Sandor dr.)
Ideggyogyaszatanak (foo.: Denes Laszlo dr.) es Korbonctanak (foo.:
Lusztig Gabor dr.) kozlemenye.

(CEREBELLAR DISEASES) (CEREBELLAR EMBOLISM & THROMBOSIS)
(MEDULLA OBLONGATA) (DISEASES) (VOCAL CORD PARALYSIS)
(PULMONARY EMBOLISM)

JOZSA, Laszlo; PERNECZKY, Maria; PATAKY, Jozsef; HONTI, Geza; LUSZTIG, Gabor

Study of the histamine-like effect of dextran. Kiserl. orvostud.
14 no.6:561-566 D '62.

1. Bacs-Kiskun Megyei Tanacs Korhaza Prosecturaja, II. Belosztalya
es Rendelointezet.
(ARTERIOSCLEROSIS) (DEXTRAN) (BLOOD PRESSURE)
(HISTAMINE LIBERATION) (BODY TEMPERATURE)

HUNGARY

DENES, Laszlo, Dr, PERNECZKY, Maria, Dr; Megye Council Hospital of Bacs-Kiskun (medical director: TAXACS, Sandor, Dr), Neurology (chief physician: DENES, Laszlo, Dr), and Pathology (chief physician: LUSZTIG, Bator, Dr), (Bacs-Kiskun Megyei Tanacs Kormaza, Ideggyogyaszat es Korbonctan).

"Occlusion of the A. Cerebelli Inferior Posterior, Confirmed by Autopsy. The Two Types of Bulbar Lateral Syndrome."

Budapest, Lingvovarazti Szemle, Vol XIV, No 5, May 63, pp 136-144.

Abstract: [Authors' German summary] In two cases, presenting a classical Wallenberg syndrome clinically, thrombosis of the a. cerebelli inf. post. was diagnosed. The cause of the observed lateral syndrome was confirmed by the autopsy finding as the thrombosis. Literature data, previous observations by the authors as well as blood supply conditions of the lateral areas of the oblongata indicate that there exists a superior lateral oblongata syndrome (occlusion of the a. fossea bulbi) and an inferior one which arises from the occlusion of the a. cerebelli inf. post. The latter is accompanied by paresis of the vocal chord and consequently a severe lesion of the middle and lower section of the nucleus ambiguus was shown in the cases discussed. 5 Eastern European, 41 Western references.

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PATANY, Jozsef, dr.; SZIKULAY, Lorant, dr.; SAJTOSS, Lajos; JOZSA, Laszlo, dr.;
PERNECZKY, Maria, dr.; LUSZTIG, Gabor, dr.

Clinical observations on arteriosclerosis and its relation to the
administration of dextran. Magy. Belorv. arch. 15 no.3:106-110
Jo '62.

1. Bacs-Kiskun Megyei Tanacs Korhaza II. Belosztalyanak es
Prosecturajanak kozlemenye.
(ARTERIOSCLEROSIS ther) (DEXTRAN ther)

HUNGARY

MUSZTIG, G.; JOZSA, L.; PERNECZKY, A.; SAVTOB, L.; PATAKI,
J.; SZIKULAI, L.; Autopsy Room and II. Ward of Internal me-
dicine of the Hospital of the Bacs-Kiskun Megye Council
(Bacs-Kiskun Megyei Tanacs Korhaza, Prosecture, II. Belosz-
taly) and Kojal [Kozegeszsegugyi és Jarvanyugyi Allomas --
Public Health and Medical Clinic for Contagious Diseases]
Laboratory (Kojal laboratorium), Kecskemet.

"Antiatherogenic Effect of Dextran and the Question of Its
Mechanism of Action."

Budapest, Kiserletes Orvostudomany, Vol 14, No 5, Oct 62,
pp 458-467.

Abstract: [Authors' German summary abridged] During dextran
treatment the following changes were observed: the iodine
number of the blood increased; the amount of urinary chole-
sterol dropped markedly; endogeneous heparin in the blood
tripled but this effect was inhibited by protamine sulfate;
80 ml intravenous dextran mobilizes endogeneous heparin e-
quivalent to about 100 mg of exogenous heparin. (cf refer-
ences, approximately half Hungarian, half Western.)

1/1

JOZSA, Laszlo; SAJtos, Lajos; PERNECZKY, Maria; BAKOCZAY, Laszlo;
PATAKY, Jozsef; LUSZTIG, Gabor

Change in the heparin content of the blood in alimentary hyperlipemia.
Kiserl. orvostud. 16 no.5:523-526 O '62.

1. Kecskemeti Megyei Korhaz Korbonctani Osztalya es II. Belosztalya.
(HEPARIN) (HYPERLIPEMIA)

HUNGARY

JOZSA, Laszlo; SAJTOB, Lajos; PREHECZKY, Maria; BAKOCZAY,
Laszlo; PATAKY, Jozsef; LUSZTIG, Gabor; Department of Pa-
thological Anatomy and II. Department of Internal Medicine
of the Hospital of the Megye (Megyei Korhaz Korbonctani Osz-
talya es II. Belosztalya), Kecskemet.

"Changes in Blood Heparin Content in Alimentary Hyperlipemia."

Budapest, Kiserletes Orvostudomany, Vol 14, No 5, Oct 62,
pp 523-526.

Abstract: [Authors' Hungarian summary] Time-dependent, quan-
titative changes in alimentary lipemia and in blood heparin
level were studied. The heparin level drops earlier than the
fat concentration rises, in case of a high dietary fat dose.
The highest fat concentration and lowest heparin level are
observed 2-4 hours after feeding. The rise in heparin con-
tent occurs before the drop in fat content. The conclusion
is drawn that heparin is partially involved in the regula-
tion of the fat level of blood. [1; ref's, mostly Western.]

1/1

PERNECZKY, Maria, dr.; SZEDERKENYI, Gyula, dr.

Enterobiosis and appendicopathies in children. Gyermekgyogyaszat
13 no.7:219-222 Jl '62.

1. Bacs-Kiskun Megyei Tanacs Korhaza Kecskemet, Korbonctani es
Korszovettani Osztalyanak kozlemenye.
(ENTEROBIUS infect) (APPENDICITIS in inf & child)

LUSZTIG, Gabor; SAJtos, Lajos; PATAKY, József; LASZLO, Jozsa; PE.NECZKY,
Maria

Analysis of blood chemistry following dextran therapy. Kiserl.
orvostud. 14 no.1:28-40 Mr '62.

1. Bacs-Kiskun Megyei Tanacs Korhaz Prosecturaja, Belosztalya
es KUJALL Laboratoriuma.

(DEXTRAN pharmacol) (CHOLESTEROL blood)
(BLOOD PROTEINS pharmacol) (POTASSIUM blood)
(PHOSPHATES blood)

JOZSA, Laszlo; SZENDERIKI NYI, Gyula; PERMFOTKY, Maria; USTIG, Gabor

Qualitative and quantitative changes in the mucopolysaccharide content of the aorta under the influence of thyrotropin. Kiseri. orvostud. 16 no.4:394-399 Ag '64.

1. Baco-Kiskun Megyei Tanacs Korhaz Korbonctani es Koraszovettani Osztalya Kecskemet.

PERNEGR, J.

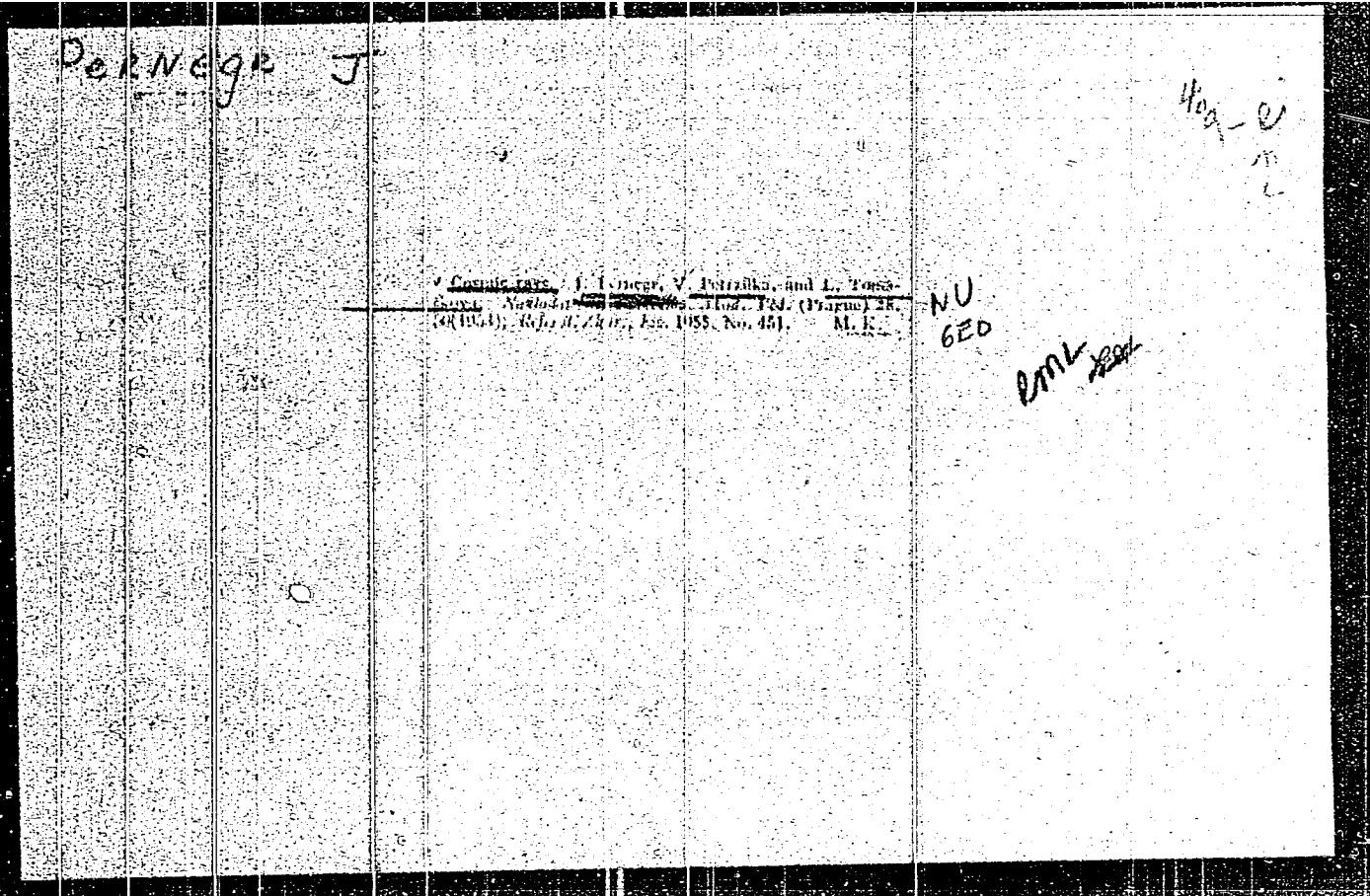
Author: D. P. Dibeler
Title: Measurement of the mean lifetime of μ^- mesons
(Charles Univ., Prague). *Arch. Techn. Mat.*, 1958, 10, No. 1, p. 1-10.
(1958) (in English).
Graphical method is used to determine the mean lifetime of μ^- mesons by absorption by
water. In better agreement with the most probable value (2.4 ± 0.18 microseconds) than usually obtained from
means of counter arrangements.

V. H. Dibeler

DMSL

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APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110015-6"

PLUMMER, J.

"Method Applied to Photographic Emulsions in Nuclear Physics." p. 159. (MATHEMATICO-PRIRODOVÉDECKÉ ROZHLÉDY, Vol. 32, no. 5, 1953, Praha, Czechoslovakia)

So: Monthly List of East European Acquisitions, IC, Vol. 3, No. 5, May 1 54. "Inclassified"

Fischer, J.; M. H. T., d.; Shavagin, I.

"Eastern-Western Isometry of Doric Columns and Geometric Patterns,"
p. 23, (Allied Publishers, Bombay, 1954, 1955, 1956, 1957, 1958,
Czechoslovakia.)

cc: Monthly list of East European publications, Leningrad, No. 11, p.
No. 5, May 1955, Ural.

PERALTA, J.

far
Geo

CZECH

537.591.5

5501. East-West asymmetry at 43°N of geomagnetic latitude. P. CHALOUPEK AND J. PERALTA. Letter in Czech. J. Phys., 5, No. 1, 91-2 (1957) in Russian.

Although measured by a number of experimenters figures for the E-W asymmetry in higher latitudes for the arriving primary cosmic-ray particles differ markedly. The authors have carried out measurements of the distribution of particles in various directions on the Lomnicky Peak at 2640 m above sea level and 43° geomagnetic latitude. A conventional telescope arrangement with G.M. counters and lead plate absorbers was used, the whole equipment being able to turn about vertical and horizontal axes. To date only dependence of intensity of particles upon zenith angle in the E-W plane has been measured. Asymmetry is estimated at $(3.6 \pm 1.8)\%$.

C. R. & WANDERS

RL
SC

Perner

Meson rays and related disintegration. P. 91
CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie veda.
Ustav technicke fysiky) Praha
Vol. 6, no. 1, Jan. 1956

Source: EELAL - LC Vol. 5. No. 10 Oct. 1956

PERNER, J.

C-7

CZECHOSLOVAKI/Nuclear Physics - Cosmic Rays

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 5267

Author : Perngr, J., Petrzelka V., Vrana J.
Inst : Physics Institute, Czechoslovak Academy of Sciences, Karlovy
University, Prague, Czechoslovakia
Title : Interaction of Nucleons at Energies of 10^{14} - 10^{15} ev/Nucleon

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 1, 67-76

Abstract : Description is given of a jet of type O + 14 a at an energy of $3.3 \pm 2.2 \times 10^{14}$ ev/nucleon, observed in a stack of nuclear emulsions exposed during the time of the exposition on the river Po. From the axis of the meson jet at a distance of 4.2 mm from the primary interaction, there was observed a secondary interaction with an unexpectedly small multiplicity of the type O+4, apparently produced by the following nucleon from the primary particle. The particles of a narrow cone form an angle on the order of 10^{-4} radians with the axis of the jet, and the particles of the diffused cone form an angle on the order of 10^{-2} radians. Such a clear anisotropy

Card : 1/2

18

CZECHOSLOVAKIA/Nuclear Physics - Cosmics Rays.

C.

Abs Jour : Ref Zhur - Fizika, № 7, 1959, 15038

Author : Pernegr, Jaroslav; Petrzelka, Vaclav; Vrana, Jiri

Inst : Institute of Physics, Czechoslovak Academy of Sciences.
Charles University Prague, Czechoslovakia

Title : An Interaction of Nucleons at an Energy Between 10^{14} and
 10^{17} ev/nucleon

Orig Pub : Chekhosl. fiz. Zh. 1958, 8, No 2, 137-147, 2603

Abstract : In an emulsion chamber, exposed at an altitude of 33 km,
an interaction of the type $(\alpha + 14)\Lambda$ was observed at an
energy $(3.3 \pm 2.3) \times 10^{14}$ ev/nucleon. Along the axis of
the "jet" there was observed a second interaction, with
very small multiplicity ($n_s = 3$ or 4), probably caused
by another nucleon of a primary Λ particle.

Card 1/2

CZECHOSLOVAKIA/Nuclear Physics - Cosmic Rays.

C.

Ats Jour : Ref Zhur - Fizika, No 7, 1959, 19538

Ten particles of a narrow cone make up with the cone axis angles on the order of 10^{-4} radians, and four particles of the diffuse cone make angles on the order of 10^{-2} radians. A noticeable anisotropy is observed in the center of mass system. The fraction of the energy of the primary nucleon, transferred upon collision to the second nucleon, has been calculated directly by extrapolation of the measured energies of secondary particles, and was found to be approximately equal to 0.1. The interpretation of the phenomenon as a whole is found to be in good agreement with the theory of multiple-particle production of Heisenberg.

Card 2/2

- 27 -

"APPROVED FOR RELEASE: 06/15/2000

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PERNEGR, Jaroslav

Magnetic single poles. Pokroky mat fyz astr 6 no.6:340 '61.

APPROVED FOR RELEASE: 06/15/2000

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L 41410-65 ARG/BOO-2/EMG(j)/EMT(d)/FBD/FSS-2/EMG(r)/EMT(1)/FBO/EMP(c) /
EMT(v)/FS(v)-3/BPF(c)/EMC(k)-2/EMG(s)-2/EMT(i)/EMF(f)/EMG(v)/EMF(c)/EMF(v)/
EMT(1)/
EMT(j)/T-2/EMG(a)-2/EMT(h)/EMF(b)-2/EMC(c)-2/EMD-2/EMG(c)/FSS(k)/EMP(b) /
A-4-110 P1-4/P2-4/P3-4/P4-4/ ROCK EXPLOITATION P1-4/P2-4/P3-4/P4-4/ 1/163
Po-4/Pc-5/Pe-4/Pn-4/r-4 IJP(c) ACT/TT/EN/DD/EP/GJ/EC/MI
Barvir, Miroslav, (Engineer); Denes, Konrad, (Professor, Doctor); Doucka, Jiri, / 141
Bartek, Miroslav, (Engineer); Denes, Konrad, (Professor, Doctor); Doucka, Jiri, / 141
Barvir, Miroslav, (Engineer); Denes, Konrad, (Professor, Doctor); Doucka, Jiri, / 141
Bartek, Miroslav, (Engineer); Denes, Konrad, (Professor, Doctor); Doucka, Jiri, / 141
Physical and Mathematical Sciences); Cesar, Milan, (Doctor); Cesar, Vladimir, (Doctor);
(Doctor); Dvorak, Antonin, (Candidate of Medical Sciences); Dvorak, Josef, (Doctor);
Guth, Vratislav, (Candidate of Medical Sciences, Docent, Doctor); Horak, Zdenek,
(Doctor of Physical and Mathematical Sciences, Corresponding Member of the
Czechoslovak Academy of Sciences, Professor, Doctor); Horodan, Jan, (Doctor of
Physical and Mathematical Sciences, Doctor); Kleczek, Jozef, (Doctor); Klest,
Pavel (Candidate of Physical and Mathematical Sciences); Kolodavsky, Milen; Korm,
Vladimir (Doctor); Kopecky, Miloslav, (Candidate of Legal Sciences); Krivsky,
Miloslav, (Candidate of Physical and Mathematical Sciences); Kviz, Zdenek, (Can-
didate of Physical and Mathematical Sciences); Ledvina, Milan, (Engineer); Malecik,
Vladimir, (Doctor); Moravec, Milan, (Candidate of Medical Sciences); Mrazek,
Jaroslav, (Candidate of Medical Sciences, Engineer); Mrazek, Jiri, (Candidate of
Technical Sciences); Neuzil, Ludek, (Doctor); Novotny, Zdenek, (Candidate of
Physical and Mathematical Sciences); Novotny, Zdenek, (Doctor); Pernigr, Jaroslav,
(Doctor); Candidate of Physical and Mathematical Sciences); Penek, Rudolf, Professor,
(Doctor, Engineer); Pipal, Miloslav, (Doctor of Technical Sciences, Corresponding
Doctor, Engineer); Plavec, Miroslav, (Doctor); Pokorny, Zdenek, (Doctor);
Pokorny, Zdenek, (Candidate of Physical and Mathematical Sciences, Docent, Doctor);
Card 1/D
2

14

L 41519-65
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Ruml, Vladimír, (Candidate of Medical Sciences, Doctor); Sadil, Josef, (Doctor of Physiological Sciences); Schmal, Ladislav; Sverák, Jiří, (Doctor); Svěstka, Zdeněk, (Doctor); Tuma, Jaroslav, (Candidate of Physical and Mathematical Sciences, Doctor); Václav, (Docent, Engineer); Vlček, Ivan, (Candidate of Technical Sciences, Professor, Doctor); Vlnáček, Boris, (Candidate of Physical and Mathematical Sciences, Doctor); Vaněk, Vladimír, (Candidate of Physical and Mathematical Sciences, Docent, Doctor); Vlasák, Marian, (Candidate of Physical and Mathematical Sciences; Doctor); Voda, Miroslav, (Engineer)

Principles of astronautics (Základy kosmonautiky) Prague, Orbis, 1964. 445 p. illus., biblio. 5000 copies printed.

TOPIC TAGS: cosmonautics, rocket, satellite, space flight, missile

PURPOSE AND COVERAGE: This publication is a popular scientific reference book for people working in cosmonautics. The book presents a survey of cosmonautics and space flight up to 1 June 1963.

TABLE OF CONTENTS:

Card 2/8

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110015-6

FERNIGR, LUDVÍK, SEDLÁK, JAROSLAV

International Conference on Plasma Radiation from Intense
Sources (Phys. of Condens. Mat., 1978)

"Institute of Physics of the Czechoslovak Academy of Sciences,
Prague" Submitted October 1978.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110015-6"

PERNEGR, YA.

S/627/60/002/000/025/027
D299/D304

3.2410
AUTHORS: Fenivesh, E., Frenkel', A., Telbits, F., Pernegr, Ya.,
Petrzhilka, V., Sedlak, Ya., and Vrana, I.

TITLE: Investigating high-energy electron-photon cascade in
emulsions

SOURCE: International Conference on Cosmic Radiation. Moscow,
1959. Trudy. v. 2. Shirokiye atmosfernyye livni i kas-
kadnyye protsessy, 307-310

TEXT: The energy spectrum of the primary photon was determined;
the energy spectrum of pairs formed at depths of up to 1.5 units
was studied. The obtained spectra were compared with the distribu-
tion based on Bethe-Heitler's theory, and with that based on Migdal's
formulas (a further development of the Landau approximation). The
energy E_0 of the primary photon was determined by the Chudakov-Per-
kins effect, by the longitudinal and lateral shower development,
and also by Pinkau's method. The values for the primary energy,

Card 1/3

S/627/60/002/000/025/027
D299/D304

Investigating high-energy ...

obtained by shower development in the approximations A and B, were underrated. A more accurate energy estimate is obtained by means of the curves of A. A. Varfolomeyev and I. A. Svetlolobov (Ref. 11: ZhETF, 36, 1771, 1959). The data of Ref. 11 yielded a higher value for the primary energy. In the following, a primary energy of $2 \cdot 10^{12}$ ev. is assumed. The energy of electron pairs was determined either by E. Lohrmann's method (Ref. 15: Nuovo Cim., 2, 1029, 1955) or by measuring multiple scattering. In some cases both methods were used. The results are shown in a table and in 2 figures which also exhibit (for comparison) two theoretical curves corresponding to Bethe-Heitler's and Migdal's formulas, respectively. The authors conclude that by studying only one or a few cascades, no definite decision can be made as to the validity of either Bethe-Heitler's or Landau-Migdal's theory. In this light, the present investigation should be considered as a contribution to the general statistics of cascades, investigations of a larger number of shower cascades being required before reaching a definite conclusion. The authors express their thanks to Professors Yanoshi, Farkas and Danysh. There

Card 2/3

S/t 27/60/002/000/025/027
D249/D304

In: Attaching high-energy ...

are 2 figures, 2 tables and 18 references: 12 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: I. H. Perkins, Phil. Mag., 46, 1146, 1955; K. Pin-kau, Phil. Mag., 2, 1389, 1957; J. C. Butcher, B. A. Chartres and H. Messel, Nuc. Phys., 6, 27, 1958; J. Nishimura and K. Kamata, Prog. Theor. Phys., 7, 185, 1952.

ASSOCIATION: Tsentral'nyy issledovatel'skiy institut fiziki, otdeleniye kosmicheskikh luchey (Central Research Institute of Cosmic Ray Section, Budapest); Fizicheskiy institut Akademii nauk (Physics Institute of the Academy of Sciences, Prague)

Card 3/7

S/05B/61/000/010/015/100
A001/A101

AUTHOR: - Pernegr, Ya.

TITLE, Consequences of the two-center model of particle production in
"jets"

PERIODICAL, Referativnyy zhurnal, Fizika, no. 10, 1961, 96, abstract 10B497 ("Tr.
Mezhdunar. konferentsii po kosmich. lucham, 1959, v. 1", Moscow,
AN SSSR, 1960, 114 - 118)

TEXT, Some consequences of the two-center model of particle production in
"jets" are discussed; they can serve as independent proofs of the correctness
of this model (this pertains to such characteristics as dependence of trans-
verse momenta on emission angles, energy spectrum, and collision parameters). 

L. Dorman

[Abstracter's note: Complete translation]

Card 1/1

VOTRUBA, M.; PERNEGR, Ya.; SUK, M.; SHIMAK, V.

Anisotropy of the angular distribution of particles in nuclear
interactions at energies 10^{12} ev. Zhur.eksp.i teor.fiz. ⁴⁰
no.3:976-979 Mr '61. (MIRA 14:8)

1. Fizicheskiy institut Chekhoslovatskoy akademii nauk, Praga, i
Fakul'tet tekhnicheskoy i yadernoy fiziki ChPl, Praga.
(Nuclear reactions)

2149

S/056/61/040/G-1-1(5)
B115/B202

24.6900

AUTHORS: Pernegr, Ya., Sedlak, Ya., Tuček, I., Šimák, W

TITLE: Successive interactions of heavy nuclei of primary cosmic
radiationPERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40,
no. 3, 1961, 978-979

TEXT: Preliminary results have been obtained by means of nuclear emulsion plates which had been irradiated. 6 pairs of successive or parallel interactions of heavy nuclei have been found. Their characteristics are given in the table. N_h denotes the tracks of the emanation particles, Z the charge of the incident nucleus, Z_1 the charges of the fragmentation products; γ_c is determined from the relation $\log \gamma_c = \log \operatorname{ctn} \theta_i$, n_1 and n_2 are the particle numbers in narrow and/or wide cones, which spread with respect to the quantity γ_c and n_1 and n_2 are the particle numbers in cones which spread with respect to the quantity

Card 1/4 3

o 514

S/056/61/04 / 03/029/C/1
B115/B202

X

Successive interactions of .

γ'_c where $\gamma'_c = (\gamma_1 \gamma_2)^{1/2}$. It is of interest that the values γ'_c of single interactions mostly diverge in one pair; since the energies for both incident nuclei must be equal in the laboratory system, the difference of the values γ'_c results from unequal effective masses of interacting nuclei M_1 and M_2 on the condition that they interact like bodies. Case 208a.0 shows that on the reduced condition $M_1(a):M_2(a) = M_1(\delta):M_2(\delta)$ the ratio of the effective masses is equal to the ratio $\gamma'_c(a):\gamma'_c(\delta) = 9$. The ratio of the effective masses in the case concerned is extremely high so that it is difficult to use a hydrodynamical model to which a continuous flow corresponds in the integral distribution. The ratio for the γ'_c res γ'_c is smaller than for the values γ_c ; the asymmetry of the numbers of the emitted forward- and/or backward-scattered particles increases especially in cases with large anisotropy. Such an asymmetry was observed in the case of the interaction 208a.9, 191 etc. The number of emitted particles seems to be proportional to the effective mass of the interacting nucleon. There

Card 2/4 3

22119
S/056/61/040/003/029/031
B113/B202

Successive interactions of...

are 1 figure, 1 table, and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Physics Institute of the Czechoslovakian Academy of Sciences, Prague

SUBMITTED: January 7, 1961

Legend to the table: 1) Successive interactions. 2) Parallel interactions.
3) The values of the angular distribution of the particles for the case 203 were made available by Doctor E. Fenyves of Budapest. The cases 203a and 203b are described in the papers by G. Biczók, G. Bozóki, E. Fenyves, E. Gombosi, J. Pernegr, J. Sedlák (Ref. 1: Internationale Arbeitsstagung über die Physik hoher Energien, Weimar, 1960, p. 85). X

Card 3/4

supplemented by expert definitions and the best plans. It is also to be
done by the author.

L 19371-63
ACCESSION NR: AR3006961

EWT(m)/BDS AFFTC/ASD/IJP(C)

S/0058/63/000/008/V034/V034

55

SOURCE: RZh. Fizika, Abs. 8V233

AUTHOR: Votruba, M.; Pernegr, Ya.; Shimak, V.

TITLE: Two-center models of particle emission in cosmic-ray jets 19

CITED SOURCE: Tr. 7 mezhdunar. konferentsii po voprosam fiz.
vy*sokikh energiy, Sofiya, 1961. Sofiya, 1962, 60-63

TOPIC TAGS: cosmic ray, jet, multiple particle production, isobar model, two-center model.

TRANSLATION: The regions of applicability of two different variants of the theory of multiple particle production in jet showers of cosmic rays are investigated: the isobar model and the two-center model. To this end, a quantity characterizing the degree of difference between the two models and admitting of a simple transition from

Card 1/2

L 19371-63
ACCESSION NR: AR3006961

one model to the other is introduced. An analysis of the experimental data on jet showers has shown that for primary energies $E_0 < 10^{12}$ ev ($\gamma_c \lesssim 20$) the jet showers are better described by the isobar model, whereas in the region $E_0 \gtrsim 10^{12}$ ev ($\gamma_c \gtrsim 20$) the two-center model is better. The transition region between the two ranges of applicability of the two models is sufficiently broad and indicates that the excitation of the colliding nucleons is also influenced by other factors in addition to the primary energy. V. Guzavin.

DATE ACQ: 06Sep63

SUB CODE: PH

ENCL: 00

Card 2/2

PERNER, Bohumil

Glass penetration by copper and its reduction to metal. Silikaty
7 no.2:108-117 '63.

1. Sdruzeni podniku uzitkového skla, Novy Bor.

L 20661-56 EXP(t) IJP(a) JD
ACC NR: AP5G28800.

SOURCE CODE: CZ/0009/65/000/009/0560/0561

EE
B

AUTHOR: Jindra, J.—Yindra, I; Perner B.

ORG: Research Institute for Single Crystals, Turnov (Vyzkumný ustav monokrystalu)

TITLE: Preparation of high-purity CuCl

SOURCE: Chemicky prumysl, no. 9, 1965, 560-561

TOPIC TAGS: single crystal, copper compound, zone melting, chemical reduction

ABSTRACT: High-purity CuCl raw material was prepared by the reduction of CuCl₂ with metallic copper followed by zone melting of the product. The raw material can be used for the preparation of single crystals. The paper is dedicated to Professor Dr. Eng. Frantisek Petr on the occasion of his 60th birthday. Orig. art. has: 4 formulas, 2 figures, 1 table. [Based on author's abstract.]

SUB CODE: 07, 11, 20/ SUBM DATE: 23Apr65/ ORIG REF: 002/ OTH REF: 005/

546.561
UDC: 548.55

Card 1/1 BK

HUNGARY
VALIENT, Karoly, Dr, MUNDI, Bela, Dr, PERNER, Ferenc, Dr; Medical University of Budapest, I. Surgical Clinic (director: RUBANYI, Pal, Dr, professor) (Budapesti Orvostudomanyi Egyesem, I. sz. Sebeszeti Klinika).

"The Effect of Thyroidectomy, Thyrotropic Hormone and Thyroxin Treatment on the Serum Heparin Content, Leukocyte and Eosinophilic Cell Count."

Budapest, Magyar Sebeszet, Vol XIX, No 2, Apr 66, pages 96-100.

Abstract: [Authors' Hungarian summary] A considerable increase in the serum heparin level and blood coagulation time was caused by thyroidectomy within 24-48 hours after the operation. TSH treatment led to the increase in the serum heparin level and blood coagulation time, and this elevation remained significant even 24 hours later. Thyroxin treatment led to a decrease in the serum heparin level as early as 4 hours after administration. Thyroidectomy and TSH treatment caused an increase in the absolute eosinophile and leukocyte counts which varied with the serum heparin content. It is assumed that TSH plays an important role in the regulation of serum heparin content. 5 Hungarian, 16 Western references.

1/1.

- 46 -

PERNET, J., inz.

Testing the pipe line insulation by high-tension current.
Paliva 42 no.2:49-51 F '62.

1. Ustav pro vyzkum paliv, Bechovice.

JELINEK, V., dr.; PERNET, J., inz.

Research on the electric weighing of materials transported by
inclined belt conveyors. Paliva 41 no.4:116 Ap '61.

EXCERPTA MEDICA Sec.8 Vol.10/9 Neurology,etc. Sept 57
PERNICA J.

4021. PERNICA J. Chir. Odd. OÚNZ Ostrava I. *Léčení zlomenin páteče s poraněním mých podle zkušeností ostravského střediska. Treatment of fractures of the spine combined with spinal cord injury according to the experiences of the hospital in Ostrava ROZHL. CHIR. 1956, 35/11 (659-664) Illus. 4

Experiences of the treatment of 72 patients. Immediate operation is indicated in every spinal trauma with spinal cord injury except in cases of severe dislocation of the vertebrae visible on the X-ray, and narrowing of the spinal canal where irreversible damage to the spinal cord may be expected. Attention is drawn to the necessity of operative treatment of impacted subluxations not interfering with the spinal cord. The importance of change of position to prevent bedsores and of rehabilitation from the first days after operation is stressed.

Cernáček - Bratislava

PERNICA, Jan

Treatment of fractured spine with injured spinal cord,
according to experiences of the Health Center at Ostrava.
Rozhl. chir. 35 no.11:659-664 Oct 56.

1. Chirurgicke oddeleni OUNZ Ostrava I, prednosta doc. dr.

Cestmir Vohnout.

(SPINE, fract.

with spinal cord inj., surg. (Cz))

(SPINAL CORD, wds. & inj.

caused by spinal fract., surg. (Cz))

PERNICA, Milan

Effect of the ferric oxide on bloating of rocks. Silikaty 7
no.1:29-35 '63.

1. Vyzkumny ustav stavebnich hmot, Brno.

PERNICA, Milan

Gradient furnace with the platinum-rhodium winding for
temperatures up to 1700 C. Silikaty 6 no.3:311-313 '62.

1. Vyzkumny ustav stavebnich hmot, Brno-Komarovo.

PERNECKER, Zoltan

Interesting application of an electromagnetic phenomenon on
musical instruments. Radiotekhnika 1/4 no.10:392-393 O '64.

PERNICKOVA, Yaroslava [Perničková, Yaroslava], uchenitsa 6-go klassa,
starosta kruzhka výukuček

Dear young Soviet naturalists! IUn.nat. no.5:1 My '59.
(MIRA 12:6)

1. Shkola No.70 goroda Pragi.
(Prague--Nature study)

PERNICKY, J.

For every drop of petroleum.

p. 562 (MECHANISACE ZEMEDELSTVI) Vol. 7, no. 24, Dec. 1957,
Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3,
March 1958

PERNICKY, J.

Economy; one of the indicators of efficiency.

P. 469 (*Mechanisace Zemidelstvi*) Vol. 7, No. 20, Oct. 1957 -- Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) IC. -- VCL. 7, NO. 1, JAN. 1958

PERNICKY, J.

"Why the collective farm in Poly Kesov decided use the SKRM-3 combine for harvesting sugar beets."

MECHANISACE ZMEDELSTVI, Praha, Czechoslovakia, Vol. 5, No. 20, October 1955.

Monthly List of East European Accessions (IEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

PIRNICKY, J.

"The Nitra Machine-Tractor Station entering the new period with full success."

MECHANISACE ZEMEDELSTVI, Praha, Czechoslovakia, Vol. 9, No. 7, July 1959.

Monthly List of East European Accessions (HEAL), LC, Vol. 8, No. 9, September 1959.

Unclassified.

PERNICKY, J.

"The Nitra Machine-Tractor Station entering the new period with full success."

MECHANISAC ZEMEDELSVI, Praha, Czechoslovakia, Vol. 9, No. 7, July 1959.

Monthly List of East European Accessions (MEL), LC, Vol. 8, No. 9, September 1959.

Unclassified.

PERNICKY, J.

PERNICKY, J. Learning from our mistakes. p. 73. -buk- Experiences of the state farm in Lany with milking machines. p. 74.

Vol. 6, no. 4, Feb. 1956
MACHANISACE ZEMEDELSTVI
AGRICULTURE
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

PERNICKY, J.

AGRICULTURE

Periodical MECHANISACE SPOLEČENSTVI. Vol. 8, no. 24, Dec. 1958.

PERNICKY, J. Basis of achievements of the Nove Zamky Machine-Tractor Station. p. 561.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

PERS ICKY, J.

PERS ICKY, J. In the Nitra District we are increasing the planting of corn and potatoes in checkrows. p. 10⁴.

Vol. 6, no. 6, Mar. 1956
MACHANISACE ZEMEDELSTVI
AGRICULTURE
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

PERNICKY, J.

Machine-tractor stations in Nitra District fulfilled their promise. p. 363.
(MECHANISACE ZEMEDELSTVI, Vol. 7, No. 16, Aug 1957, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

Pernicky, J.

AGRICULTURE

Concentrating the assistance of machine-tractor stations on collective farms with low output. p. 8.

Vol. 9, no. 1, Jan. 1959

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 4, April 1959

STICH, Z., MAREK, A., PERNICKY, J., HAZUKOVA, J., WALLENFELS, V.,
ZOPKA, J., STRUTINSKI, J., FALCET, T.

Socialization of medicine in Czechoslovakia. Zdravst. rev.
25:6, June 50. p. 165-6

CML 19, 5, Nov., 1950

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110015-6

LUKASHEVICH, A. M., PERNIK, A. D., FIRSOV, G. A.

"Theory of the Ship", published by State Publishers of Shipbuilding Literature,
Moscow 1950.

APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001240110015-6"

KRIVTSOV, Yu.V., kand. tekhn. nauk; PERNIK, A.D., kand. tekhn. nauk.

Propeller singing. Sudostroenie 22 [i.e.23] no.10:9-14 0 '57.
(Propellers) (Vibration (Marine engineering)) (MIRA 11:2)

CHUVIKOVSKIY, V.S., referent; NOVOZHILOV, V.V., referent; PERNIK, A.D.,
referent; YEGOROV, I.T., referent; TITOV, I.A., referent;
FIRSOV, G.A., referent; BOYTSOV, O.V., inzh.; BASIN, A.M., referent

Scientific engineering conference on hydromechanics and structural
mechanics of ships. Sudostroenie 24 no.7:86-87 J1 '58. (MIRA 11:9)
(Naval architecture--Congresses)

PERNIK, A.D.

"THE Initial Stages of Cavitation."

report presented at the 11th Annual Scientific Technical Conference on Ship Theory, organized by the Central Administration of the Scientific-Technical Society of the Shipbuilding Industry, 13-15 December 1960.

PERNIK, Aleksandr Davidovich; IVANOV, A.N., kand.tekhn. nauk,
retsenzent; RUSETSKIY, A.A., kand. tekhn. nauk, retsenzent;
SOLOV'IEV, V.I., otv. red.; OSVENSKAYA, A.A., red.; ERASTOVA,
N.V., tekhn. red.

[Problems of cavitation] Problemy kavitatsii. Leningrad, Sudprom-
giz, 1963. 334 p. (MIRA 16:3)
(Cavitation)

BASIN, Abram Moiseyevich; MINIOVICH, Il'ya Yakovlevich; POLYAKHOV,
N.N., doktor tekhn. nauk, retsenzent; RUSETSKIY, A.A.,
kand. tekhn. nauk, retsenzent; PERNIK, A.D., doktor tekhn.
nauk, nauchn. red.; OSVENSKAYA, A.A., red.; KONTOROVICH,
A.I., tekhn. red.; KOROVENKO, Yu.N., tekhn. red.

[Theory and design of propellers] Teoriia i raschet greb-
nykh vintov. Leningrad, Sudpromgiz, 1963. 759 p.
(MIRA 16:10)

(Propellers--Design and construction)

L 41387-66 ENT(1)/EWP(m) MM
ACC NR: AT6021857 (N)

SOURCE CODE: UR/3196/64/000/046/0025/0040

AUTHOR: Pernik, A. D. (Doctor of Technical Sciences)

ORG: None

54
B+1

TITLE: A new method for cavitation testing of hydroturbine models

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy kotloturbinnyy institut, Trudy, no. 46, 1964. Kotloturbostroyeniye; gidroturbostroyeniye (Boiler and turbine generators; hydraulic turbine generators), 25-40

TOPIC TAGS: cavitation, water turbine, fluid pressure, dimension analysis, vacuum chamber

ABSTRACT: The author proposes a method for cavitation testing hydraulic turbine models. This method makes it possible to simplify experimentation and to give a better explanation for turbine operation under conditions of cavitation. The method was developed at the Hydroturbine Division of the Cavitation Laboratory at the Central Scientific Research Design and Planning Boiler and Turbine Institute imeni I. I. Polzunov. The method consists of the following. Pressure is kept constant in the vacuum tank during testing so that it is independent of the head or the moment of the model, both of which vary during testing. Ordinary power characteristics are given in the form of the functions $n'_1(Q'_1)$ and $n(n'_1)$ at a selected pressure in the vacuum tank.

Card 1/2

L 41387-66

ACC NR: AT6021857

The rpm of the model is kept constant. In this way, the sequence of operations which must be performed is reduced to the following. The movable arm of the rheostat which controls the head is moved to an arbitrary position, and the rheostat which controls the load is used for setting the rpm of the model. An instrument reading can then be taken. The resultant data may be used to determine the value of the cavitation coefficient corresponding to the initial effect of cavitation on the power characteristics of the turbine and the cavitation disruption of power which is accompanied by strong pressure pulsation. Analysis of these data shows the necessity for designating suction height with respect to the critical coefficient of cavitation which is determined by ordinary methods. The author also proposes a method for analyzing the test results in dimensionless units. This makes it possible to limit testing for a given angle of blade setting to a single opening of the guide vanes. The cavitation coefficients correspond to other openings of the guide vanes and can be determined by scaling. This method shortens the time required for carrying out cavitation testing of turbine models. Orig. art. has: 14 figures, 20 formulas.

10/
SUB CODE: 13/ SUBM DATE: 11Jul64

Card 2/2 bdb

KORSHAK, V.V.; SERGEYEV, V.A.; SURNA, Ya.A.; PERNIKIS, R.Ya.

Polyethers of levoglucosan. Part 3: Polymers of trimethyllevoglucosan.
Vysokom.sosed. 5 no.11:1593-1596 N '63. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut
lesokhozya/stvennykh problem i khimii drevesiny AN Latviyskoy SSR.

PERNIKOV, M.Sh.

Nature of the relationship between permeability and general
and dynamic porosity of rocks. Geol. nefti i gaza 6 no.1:38-40
Ja '62.
(MIRA 15:1)

1. Trest Bashneftegeofizika.
(Oil sands--Permeability)

PERNIKOV, M.Sh.

True resistance diagram to determine the porosity of terrigenous
cross sections in Bashkiria. Prikl. geofiz. no.17:293-305 '57.
(MIRA 11:2)
(Bashkiria--Prospecting--Geophysical methods)

PERNIKOV, M. Sh.

Method of determining the permeability of oil-bearing strata from
electric well logs. Trudy VNIL no.29:55-68 '60. (MIRA 13:10)

1. Bashneftegeofizika.

(Volga Valley--Oil well logging, Electric)
(Ural Mountain region--Oil well logging, Electric)

PERNOV, K.; ILCHOVSKI, St.; STOEVA, Z.; DASKALOVA, L.;
FESCHIEVA, N.; PETROV, Ig.; TANEVA, Iv.; BOIAUDZHEVA, Iv.;
MISHKOVA, R.

On clinical forms of multiple sclerosis. Suvr. med. 12 no.11:
93-99 '61.

1. Iz Katedrata po nervni bolesti pri VMI [Vissh meditsinski
institut] - Sofiia (Rukov. na katedrata prof. S. Bozhinov).
(MULTIPLE SCLEROSIS)

PERNOV, K.

Incidence & clinical aspects of diffuse sclerosis in the Democratic People's Republic of Korea. Suvrem. med., Sofia 8 no. 12:55-59 1957.

1. Iz Provinzialnata bolnitsa--gr. Siniichzhu, KNDR (Gl. lekar: Dim. Marinov).

(MULTIPLE SCLEROSIS; epidemiology,
in No. Korea (Bul))

GEORGIEV, Iv.; PERNOV, K.; DASHIN, V.; IORDANOV, B.

Our results in the treatment of myopathies and lesions of the peripheral nervous system with a new Bulgarian preparation "nivalin." (Preliminary communication). Suvrem med., Sofia no.4:16-26 '60.

1. Iz Katedrata po nevrologia pri VMI, Sofiia. (Rukov. na katedrata:
dots. S.Bozhinov)
(AUTONOMIC DRUGS ther.)
(NEUROLOGY ther)
(MUSCLES dis.)

BULGARIA/Pharmacology. Pharmacognosy. Toxicology - Toxicology. T-11

Abs Jour : Referat Zhur - Biologiya, No 16, 1957, 72012

Author : Pernov, K , Miler, V.

Inst :
Title : On the Bites of Bulgarian Poison Snakes.

Orig Pub : Sovrem. med., 1956, 7, No 2, 69-74

Abstract : Data on the biology and toxicology of Bulgarian poison snakes are given and recommendations for the treatment of victims supplied. One victim described, showed strong neurological symptoms. This proves than the poison snakes of Bulgaria do not only possess a hemotoxic poison, as is described in literature, but also a neurotoxic one.

Card 1/1

- 110 -

PERINOV, K.; IVANOV, St.

Case of acute leukemia with neuropathologic symptoms. Suvrem.
med. Sofia no.6:85-88 '55.

1. Iz Klinikata po nervni bolesti (direktor; prof. G. Uzunov)
i Klinikata po fakultetska terapiia (direktor; prof. K. Chilov)
pri Visshilia meditsinski institut V. Chervenkov-Sofia
(NERVOUS SYSTEM, diseases,
in leukemia)
(LEUKEMIA, complications;
nervous system dis.)

PERNOV, K.

Determination of working capacity in neuroses. Suvrem.med.,
Sofia 6 no.7:61-66 1955.

1. Iz Katedrata po nervni bolesti pri Visshiaia meditsinski institut
V.Chervenkov, Sofiia (direktor prof. G.Uzunov).
(NEUROSES,
working capacity in, determ.)
(WORK,
capacity, determ. in neuroses)

PERNYAK, E.G.; YASTREBOVA, T.K.

Study of a simplified method of heat balance. Trudy GOS no.129:
88-100 '62.
(MIRA 16:2)
(Evaporation)

AUTHORS:

Pernyak, N. G., and Yastrebova, T. K.

8/531/62/000/129/004/004 D218/D308

TITLE:

A study of the simplified heat balance method

SOURCE:

Leningrad. Glavnaya geofizicheskaya observa-
teriya. Trudy. no. 129. 1962. Metody
meteorologicheskikh nabлюдений i obrabotki.
88-100

TEXT:

The "simplified heat balance method" was used by V. V. Romanov (Trudy GGI, no. 54, 1956) to determine the evaporation from marshes. In this method, the evaporation is calculated for each hour of the day using data averaged over a decade. [Abstractor's note: 10 hours?] The total evaporation over this period is calculated from the heat balance equation

Card 1/4

A study of the...

S/531/62/000/129/004/004
D218/D308

$$E = 10 \sum_{1}^{24} \frac{R_b}{60 \left(1 + 0.64 \frac{\Delta t}{\Delta e} \right)} - \frac{Q_s}{z_m} \quad (1)$$

where E is the total evaporation per decade in millimeters, R_b is the radiation balance during the decade in cal/cm^2 , Q_s is the total flow of heat into the soil per decade in cal/cm^2 , Δt and Δe are the differences in the temperature and humidity at 0.5 and 2.0 m above ground level (averaged over a decade) and z_m is given by

$$z_m = \sum_{1}^{24} 60 \cdot 1 + 0.64 \frac{\Delta t}{\Delta e} \quad (2)$$

Card 2/1

A study of the...

S/531/60/000/129/001/001 1218/D308

The radiation balance R_b is obtained by calculation. Its short-wave component is determined by the method of A. P. Braslavskiy and Z. A. Vikulina (Gidrometeoizdat, 1954), while the long-wave part is determined with the aid of the nomograms given by Ye. D. Kovaleva and T. V. Kirillova (Trudy GGO, no. 27, 89, 1957). The heat flow into the soil is calculated from temperature data down to a depth of 80 cm and from the thermo-physical characteristics of the soil. The temperature and humidity gradients are obtained from thermograph and hygrograph recordings. Field measurements by the present authors have shown that the Romanov method of determining the evaporation can only be used if the calculated values of the radiation balance are replaced by observed values, and the number of gradient determination is not less than 6 per 24 hours. Since this removes the essential simplicity of the method, and, moreover, as it was possible to abandon the use of meteorological self-recording instrument without loss of accuracy, it is concluded

Card 3/4

A study of the...

S/531/62/000/129/004/004
D218/D308

that the only useful modification of the existing network method of determining the heat flow will be to introduce the Romanov idea of calculating the decade sums with the aid of Eq. (1) from the decade averages of the temperature and humidity gradients, while the heat flow into the soil should be taken into account approximately in the form of a correction through the decade sum. There are 3 figures and 6 tables.

Card 4/4

PERNYAK, E.G.; STRUZER, L.R.

Simplified method for determining the dimensional distribution
of raindrops. Trudy GGO no.160:77-85 '64. (MRA 17 9)